



SECTION 10

TURF IRRIGATION



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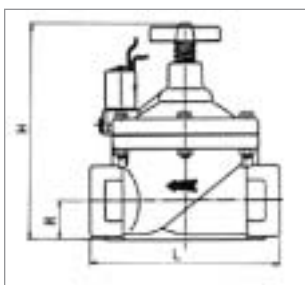
Irrigation Valves - Electric Solenoid



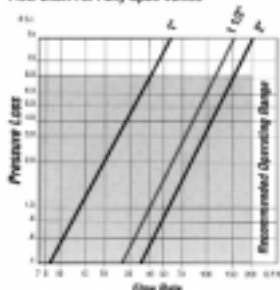
TFV Series

TFV Series Features:

- Rugged glass-reinforced nylon construction.
- For residential, commercial and agricultural irrigation systems.
- High strength, long life natural rubber diaphragm.
- In line globe design.
- Normally closed valve provides slow and smooth opening and closing.
- Quarter turn downstream bleed lever allows manual operation without external water spills.
- High flow rate with low head loss.
- Flow control available for exact water flow adjustment.
- Accurate operation over a wide range of pressure flows.
- In line maintenance - No need to remove valve from line for service.
- Standard and flow control models available.
- Available with standard 24 volt or optional 110 volt solenoid.
- Normally open valves are also available on a special order basis.
- NOT for use in ultraviolet disinfection systems.



Flow Chart For Fully Open Valves



Specifications:

Voltage	24 Volts AC 3 Watts
Current	Inrush .48 AMPS; Holding .24 AMPS
Max. Working Temp	180°F
Max. Operating Pressure	150 PSI
Min. Operating Pressure	10 PSI
Recommened minimum pressure differential	7 PSI
Valve Body	Glass reinforced Nylon
Inner Plastic Parts	Acetal
Diaphragm	Natural rubber
Seals	Buna-N
Metal Parts and Screws	Stainless Steel 303

Part Number	Size (FPT)	Volts	Flow Control	Weight	Dimensions			Width	Ctn Qty	List Price
TFV100T	1"	24	No	12.5 oz	4 ⁵ / ₁₆	2 ¹ / ₂	7/8	3 ¹ / ₁₆	35	\$ 53.77
TFV100T110V	1"	110	No	12.5 oz	4 ⁵ / ₁₆	2 ¹ / ₂	7/8	3 ¹ / ₁₆	35	55.26
TFV100TF	1"	24	Yes	12.5 oz.	4 ⁵ / ₁₆	4 ¹ / ₂	7/8	3 ¹ / ₁₆	35	58.89
TFV100TF110V	1"	110	Yes	12.5 oz.	4 ⁵ / ₁₆	4 ¹ / ₂	7/8	3 ¹ / ₁₆	35	60.11
TFV150TF	1-1/2"	24	Yes	2.2 lbs.	6 ⁵ / ₁₆	7 ³ / ₁₆	1 ⁵ / ₁₆	5	10	166.03
TFV150TF110V	1-1/2"	110	Yes	2.2 lbs.	6 ⁵ / ₁₆	7 ³ / ₁₆	1 ⁵ / ₁₆	5	10	168.55
TFV200TF	2"	24	Yes	2.2 lbs.	6 ³ / ₄	7 ³ / ₈	1 ¹ / ₂	5	6	201.01
TFV200TF110V	2"	110	Yes	2.2 lbs.	6 ³ / ₄	7 ³ / ₈	1 ¹ / ₂	5	6	203.18
Replacement Solenoid Assemblies										
H701-24	24 volt									30.52
H701-110	110 volt									31.28



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6/04



94-11 Cutoff



94-F



HMT100G



HMT70-1G



91-11



91-F

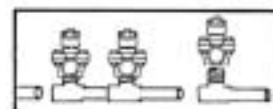


HMRA1/2x3/4

Irrigation Valve Manifold Tee Features:

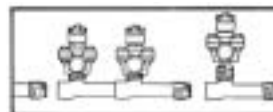
94 Series and HMT100G Manifold Tees:

- Uniformly spaced installation of manifolds for 1" irrigation valves.
- Designed to be mounted horizontally for electric globe valves or installed with the threaded outlet upright to accommodate angle valves.
- 94-11 and 94-F designed to allow cutoff of run to desired length.
- Rugged Schedule 40 PVC.



HMT70-1G (txt) Manifold Tee:

- 1" IPS threads compatible with all 1" valves.
- Hand tight assembly in series for a uniformly spaced sprinkler manifold.
- Riser always position correctly, self aligning when tightened until threads no longer show.
- Buna N o-ring seal.
- Rugged Schedule 40 PVC.



91 Series PVC Cross Tee Manifold:

- Uniformly spaced side by side installation.
- 1" fpt or mpt connections.
- Rugged Schedule 40 PVC.

Part Number	Description	Ctn Qty	List Price
94-11	1" SOC X 1" SLIP X 1" MPT - Cutoff	50	\$ 4.39
94-F	1" Female cutoff tee	50	4.39
HMT100G	1" SOC X 1" SLIP X 1" MPT	50	4.39
HMT70-1G	1" FPT X 1" MPT X 1" MPT	50	4.39
91-11	1" SOC X 1" MPT X 1" SLIP X 1" MPT	50	5.85
91-F	1" SOC X 1" FPT X 1" SLIP X 1" FPT	50	5.85

HMRA Adapter Features:

- 1/2" x 3/4" mipt Reducing Adapter

Part Number	Description	Ctn Qty	List Price
HMRA 1/2 x 3/4	1/2" x 3/4" MIPT Reducing Adapter	25	\$ 0.86



Irrigation Installation Accessories

P73 Cut-off Nipples Features:

- Patented design 4 in 1 nipple allows choice of length, excess becomes additional useable nipples.
- 100 PSI (max) and 201° F max temperature.
- Green

Poly Cut-off Nipple, Riser Extension and Poly Nipple Features:

- Black poly

SW500 Nipple Extractor Features:

- For 1/2" or 3/4" plastic nipples.
- Easy to remove broken plastic riser from sprinkler pipe and fittings.
- Insert tip and turn.



P-73 Series



PCO Series



RE Series



RECO Series



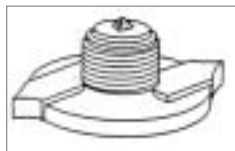
PN Series



SW500C

Part Number	Description	Ctn Qty	List Price
Cut-off Nipples			
P73-1/2	1/2" MIPT X 1/2" MIPT X 6"	50	\$ 0.68
P73-3/4	3/4" MIPT X 3/4" MIPT X 6"	25	1.03
P73-3/4x1/2	Reducing, 3/4" MIPT X 1/2" MIPT, 6"	40	0.78
Poly Cut-off Nipples			
PCO1/2X4	1/2" x 4" MPT X MPT	500	0.35
PCO1/2X6	1/2" x 6" MPT X MPT	500	0.40
PCO1/2X3/4X4	1/2" x 3/4" x 4" MPT X MPT	500	0.54
PCO1/2X3/4X6	1/2" x 3/4" x 6" MPT X MPT	400	0.63
PCO3/4X4	3/4" x 4" MPT X MPT	400	0.49
PCO3/4X6	3/4" x 6" MPT X MPT	400	0.77
Riser Extensions			
RE1/2X1	1/2" x 1" FPT X MPT	1000	0.23
RE1/2X1 1/2	1/2" x 1 1/2" FPT X MPT	1000	0.24
RECO1/2X4	1/2" x 4" FPT X MPT	500	0.54
RECO3/4XSHORT	3/4" x Short FPT X MPT	500	0.60
RECO3/4X4	3/4" x 4" FPT X MPT	400	0.68
Poly Nipples			
PN1/2XCLOSE	1/2" x close	1000	0.18
PN1/2X3/4XCLOSE	1/2" x 3/4" x close	1000	0.25
PN3/4XCLOSE	3/4" x close	1000	0.26
PN1/2X2	1/2" x 2"	1000	0.19
PN1/2X3	1/2" x 3"	500	0.23
PN1/2X4	1/2" x 4"	500	0.25
PN1/2X5	1/2" x 5"	500	0.35
PN1/2X6	1/2" x 6"	500	0.40
Nipple Extractors			
SW500C	Stub Wrench	25	5.97

Irrigation Installation Accessories



HP2000



HP1500



SD1000

HP Series Drain and Adapter Features:

- Freeze protection.
- Easy installation without tools.
- Dirt stopper screen keeps sand, dirt and sediment out of system.
- Hammer slug for easy installation on reducing elbows.
- Recessed wicking pad.



SD1000 Siphon Drain Features:

- Freeze protection. Protects mainlines, sprinkler heads, pipe, low spots, and end lines.
- New or existing irrigation systems. 3 sec. installation, no tools necessary.
- One drain for 1/2" thru 1" polyethylene and PVC pipe.

Part Number	Description	Use For	Ctn Qty	List Price
Drains				
HP2000	1/2" MPT Drain	Lateral line	25	\$ 4.40
HP3000	3/4" MPT Drain	Lateral line	25	4.68
HP4000	1/2" MPT Drain	Main line	25	5.00
SD1000	Fits 1/2" thru 1" pipe	Siphon Drain	25	7.28
Reducing Elbows				
HP1500	3/4" ins x 1/2" fpt Elbow	Poly end of line	10	6.37
HP1600	1" ins x 1/2" fpt Elbow	Poly end of line	10	6.34
HP1700	1" ins x 3/4" fpt Elbow	Poly end of line	10	6.34



500

ISO 9001

Mini Trol® Water Hammer Arrestor Features:

- Mini Trol takes the bang out of water lines.
- Effectively intercepts surges in water lines.
- Prevents damage and shock waves by quick closing valves.
- Designed with pre-pressureized, permanent air chamber separated from water by a sealed-in heavy duty diaphragm.
- Chamber is polypropylene lined. Water never touches steel.
- Guaranteed not to waterlog or lose air.
- Manufactured for AGI in a ISO9001 facility.



Precharge Pressure:	22 psi
Max. Working Pressure:	125 psi
Max. Shock Pressure:	200 psi
Max. Operating Pressure:	200° F
Max. Velocity:	100 FPS

Part Number	Description	Ctn Qty	List Price
500	Mini-Trol 4 1/2" H x 3 3/8" W x 1/2" MPT	24	\$ 33.97



Irrigation Installation Accessories



ND Series



KP-25



HC Series

Saddle Tee Installation Tool Features:

ND Series Nut Driver:

- T handle wrench or drill attachment versions.
- Metal shaft

KP-25 Kwikpunch:

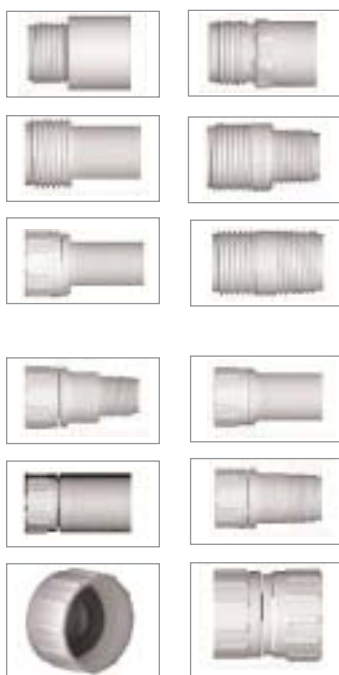
- Cuts a clean, burr-free, 2.5mm hole.
- Spring loaded push pin ejects plug.

HC Series Coring Tool:

- Self-retracting blade.
- Cuts a clean, burr-free sawdust-free hole in seconds.



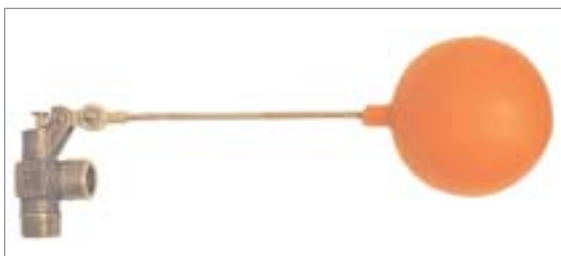
Part Number	Description	Ctn Qty	List Price
Coring Tools/Nut Driver (for DST Series)			
ND375	9/16" Nut Driver	1	\$ 4.72
ND500	9/16" Nut Driver, T handle, 15" L	1	22.64
ND501	9/16" Nut Driver drill attachment 3/8" metal shaft, 11" L	1	22.64
HC45	Coring Tool for DST Series Saddle Tees w/1/2" FIPT outlet	1	22.23
HC55	Coring Tool for DST Series Saddle Tees w/3/4" FIPT outlet	1	22.23
KP-25	Kwikpunch with spring loaded push pin, 2.5mm ID hole	1	22.44



Garden Hose Thread Fittings

- Material: PVC Type I White

Part Number	Size	Connections	Ctn Qty	List Price
Garden Hose Thread Fittings - MALE				
MHT-101	3/4" x 1/2"	MHT x Slip	25/200	1.21
MHT-102	3/4" x 1/2"	MHT x FIPT	25/200	1.21
MHT-103	3/4"	MHT x SLIP	25/200	1.21
MHT-104	3/4" x 1/2"	MHT x MIPT	25/200	1.21
MHT-105	3/4" x 1/2"	MHT x SPIGOT	25/200	1.21
MHT-106	3/4"	MHT x MIPT	25/200	1.21
Garden Hose Thread Fittings - FEMALE				
FHT-201	3/4" x 1/2"	FHT x Spigot	25/200	1.76
FHT-202	3/4" x 1/2"	FHT x Slip	25/200	1.76
FHT-203	3/4" x 1/2"	FHT x MIPT	25/200	1.76
FHT-204	3/4"	FHT x MIPT	25/200	1.76
FHT-205	3/4"	FHT x SLIP	25/200	1.76
FHT-206	3/4"	FHT x FIPT SWIVEL	25/200	2.24
FHT-207	3/4"	FHT x FHT SWIVEL	20/500	2.24
FHT-301	3/4"	FHT CAP	25/200	0.62



BFV Series

Bronze Float Valve Features:

- Cast bronze body
- Buna-N Disc
- Heavy Duty
- Tapped for 1/4"-20SAE rod
- Threaded outlet
- Rated at 125 psi

Part Number	Size	Inlet	Outlet	Tapped	Ctn Qty	List Price
BFV1/2	1/2"	1/2" mpt	1/2" mpt	1/4"-20SAE	10	\$ 14.39
BFV3/4	3/4"	3/4" mpt	3/4" mpt	1/4"-20SAE	10	17.47
BFV1	1"	1" mpt	1" mpt	1/4"-20SAE	10	26.97



BFVR Series

Brass Rods Features:

- Brass SAE
- Male thread both ends

Part Number	Length	Thread	Fits Valve Size	Ctn Qty	List Price
BFVR8	8"	1/4"-20SAE	1/2" - 1"	100	\$ 6.97
BFVR10	10"	1/4"-20SAE	1/2" - 1"	100	8.07
BFVR12	12"	1/4"-20SAE	1/2" - 1"	100	9.04



BFVFP Series

Plastic Float Features:

- PVC
- Corrosion resistant
- Lightweight
- Up to 175° F
- For open tank service only

Part Number	Float Diam.	Buoyancy	Female Connection	Ctn Qty	List Price
BFVFP5	5"	2.17 lbs.	1/4"-20SAE	100	\$ 19.43
BFVFP6	6"	3.8 lbs.	1/4"-20SAE	100	22.89
BFVFP8	8"	9.87 lbs.	1/4"-20SAE	20	26.86



Saddle Tees - Bronze, Plastic for Poly Pipe



HBST Saddle Tee

HBST Series BRONZE Saddle Tees (FOR USE ON POLY PIPE)

- Easy installation.
- Non-corrosive.
- Leakproof.
- Stainless steel slotted screws.
- Gasket seal.
- DO NOT USE ON RIGID PVC PIPE.



DST Saddle Tee

DST KWIKSEAL Manufactured by DAWN (FOR USE ON POLY PIPE)

- No inserts or turbulence to cause friction loss.
- No inserts to cut and muscle into the pipe.
- No loose parts to lose or assemble.
- No parts to rust, rot or corrode.
- No sliding gaskets, so it does not leak if pipe should kink next to saddle.
- Available for 3/4", 1" and 1-1/4" P.E. pipe with 1/2" or 3/4" FIPT outlet.
- DO NOT USE ON RIGID PVC PIPE.



Part Number	Pipe Size	Outlet FPT	Ctn Qty	List Price
Bronze Saddle Tees				
HBST 3/4x1/2	3/4"	1/2"	200	\$ 4.57
HBST 3/4x3/4	3/4"	3/4"	200	4.82
HBST 1x1/2	1"	1/2"	200	5.07
HBST 1x3/4	1"	3/4"	200	5.32
HBST 1 1/4x1/2	1-1/4"	1/2"	120	7.86
HBST 1 1/4x3/4	1-1/4"	3/4"	100	8.25
HBST 1 1/2x1/2	1-1/2"	1/2"	100	8.86
HBST 1 1/2x3/4	1-1/2"	3/4"	100	9.32
HBST 1 1/2x1	1-1/2"	1"	72	11.57
HBST 2x1/2	2"	1/2"	80	13.54
HBST 2x3/4	2"	3/4"	60	14.25
Dawn KWIKSEAL Plastic Saddle Tees				
DST3/4x1/2	3/4"	1/2"	250	2.68
DST3/4x3/4	3/4"	3/4"	250	2.80
DST1x1/2	1"	1/2"	250	2.84
DST1x3/4	1"	3/4"	250	3.03
DST1 1/4x1/2	1-1/4"	1/2"	250	4.29
DST1 1/4x3/4	1-1/4"	3/4"	200	4.49

Saddle Tees - Plastic for Poly Pipe



BS Saddle Tees

BS Series Blazing Saddle Manufactured by TOM KING HARMONY PRODUCTS



- Less flow restriction than an insert fitting.
- BS Series for use on Polyethylene Pipe
- BS-PVC Series for use on PVC Pipe
- Labor savings. No tools required. 10 sec installation w/ minimal digging.
- Withstands over 400 psi without leaking. Tested over 700,000 cycles at 60 psi.
- All plastic construction, no gaskets, seals, moving parts or clamps.
- Slip over pipe, apply pressure to top to lock in place, thread spike into saddle until locked.

Part Number	Pipe Size	Outlet FPT	Ctn Qty	List Price
Blazing Saddle				
BS4000	3/4"	Swing Pipe Barb	25/250	\$ 4.15
BS5000	3/4"	1/2"	25/250	3.96
BS6000	3/4"	3/4"	25/250	3.96
BS7000	1"	1/2"	25/250	4.02
BS8000	1"	3/4"	25/250	4.02
BS9000	1"	Swing Pipe Barb	25/250	4.20
BS5PVC	3/4"	1/2"	25/250	4.01
BS6PVC	3/4"	3/4"	25/250	4.01
BS7PVC	1"	1/2"	25/250	4.13
BS8PVC	1"	3/4"	25/250	4.13



Saddle Tees - PVC for Rigid Plastic Pipe



Clamp-It™ PVC Saddle Tee

Clamp-It™ PVC Saddle Tees for Rigid Pipe Features:

- Use for turf and irrigation systems, golf courses, athletic fields.
- Use for water service lines, mines, landfills.
- Provides full and equal support around the entire circumference of the pipe.
- Easy to install hinge and clamping wedge eliminates need for metal screws.
- Made of high impact type II PVC.
- EPDM O-ring seal.
- Rated at 200 PSI at 72° F.
- For use on cold water lines only, 2" - 8" PVC.



1. Place saddle on desired location and mark. Drill hole according to Drill Chart and deburr.



2. Place saddle over hole and attach easy clamping hinge around pipe.



3. Apply wedge half way by hand and finish off with a slight tap of a rubber mallet. Ideal for new installations or additions.



4. Saddle should be pressure tested prior to burial to assure system integrity. Long lasting EPDM o-ring seal assures a leak free installation. Note: wedge does not need to be flush with saddle body to seal.

Saddle Drill Sizes:

Outlet size	Drill Size
over 2 1/2" pipe	
3/4" IPS Slip & Fipt	3/4"
1" IPS Slip & Fipt	1"
1 1/4" IPS Slip & Fipt	1 1/4"
1 1/2" IPS Slip & Fipt	1 3/8"
* For 2 1/2" IPS saddle with a 2" outlet - Drill size must be 1 3/4" due to pipe restriction.	

Part Number	IPS Pipe Size	Tap Size	Ctn Qty	List Price
Clamp-It™ PVC Saddle Tees				
422007	2	3/4 FIPT	5	\$ 28.38
422010	2	1 FIPT	5	28.38
422012	2	1-1/4 FIPT	5	28.38
422015	2	1-1/2 FIPT	5	28.38
432007	2	3/4 SLIP	5	28.38
432010	2	1 SLIP	5	28.38
432012	2	1-1/4 SLIP	5	28.38
432015	2	1-1/2 SLIP	5	28.38
422507	2-1/2	3/4 FIPT	5	31.82
422510	2-1/2	1 FIPT	5	31.82
422512	2-1/2	1-1/4 FIPT	5	31.82
422515	2-1/2	1-1/2 FIPT	5	31.82
422520	2-1/2	2 FIPT	5	31.82
432507	2-1/2	3/4 SLIP	5	31.82
432510	2-1/2	1 SLIP	5	31.82
432512	2-1/2	1-1/4 SLIP	5	31.82
432515	2-1/2	1-1/2 SLIP	5	31.82
432520	2-1/2	2 SLIP	5	31.82

See next page for 3" - 8" CLAMP IT Saddle Tees.

Saddle Tees - PVC for Rigid Plastic Pipe



Clamp-It™ PVC
Saddle Tee

Part Number	IPS Pipe Size	Tap Size	Ctn Qty	List Price
453007	3	3/4 SLIP	5	\$ 38.15
453010	3	1 SLIP	5	38.15
453012	3	1-1/4 SLIP	5	38.15
453015	3	1-1/2 SLIP	5	38.15
453020	3	2 SLIP	5	38.15
443007	3	3/4 FIPT	5	38.15
443010	3	1 FIPT	5	38.15
443012	3	1-1/4 FIPT	5	38.15
443015	3	1-1/2 FIPT	5	38.15
443020	3	2 FIPT	5	38.15
454007	4	3/4 SLIP	5	48.01
454010	4	1 SLIP	5	48.01
454012	4	1-1/4 SLIP	5	48.01
454015	4	1-1/2 SLIP	5	48.01
454020	4	2 SLIP	5	48.01
444007	4	3/4 FIPT	5	48.01
444010	4	1 FIPT	5	48.01
444012	4	1-1/4 FIPT	5	48.01
444015	4	1-1/2 FIPT	5	48.01
444020	4	2 FIPT	5	48.01
456007	6	3/4 SLIP	5	54.90
456010	6	1 SLIP	5	54.90
456012	6	1-1/4 SLIP	5	54.90
456015	6	1-1/2 SLIP	5	54.90
456020	6	2 SLIP	5	54.90
446007	6	3/4 FIPT	5	54.90
446010	6	1 FIPT	5	54.90
446012	6	1-1/4 FIPT	5	54.90
446015	6	1-1/2 FIPT	5	54.90
446020	6	2 FIPT	5	54.90
458007	8	3/4 SLIP	5	66.62
458010	8	1 SLIP	5	66.62
458012	8	1-1/4 SLIP	5	66.62
458015	8	1-1/2 SLIP	5	66.62
458020	8	2 SLIP	5	66.62
448007	8	3/4 FIPT	5	66.62
448010	8	1 FIPT	5	66.62
448012	8	1-1/4 FIPT	5	66.62
448015	8	1-1/2 FIPT	5	66.62
448020	8	2 FIPT	5	66.62

Part Number	Description	Ctn Qty	List Price
WEDGE 225	Wedge, Fits 2" and 2-1/2" Saddles	1	\$ 14.03
WEDGE 380	Wedge, Fits 3" and 4" Saddles	1	21.07
WEDGE 480	Wedge, Fits 6" and 8" Saddles	1	21.07

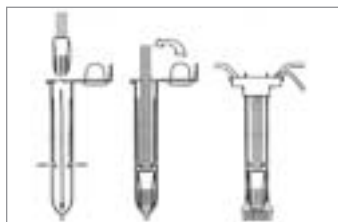
Replacement O-rings available for all size PVC Saddle Tees.
Contact your customer service representative for sizing and pricing.



Electrical Installation Accessories



Direct Burial Splice Connector



Direct Burial Splice Connector Features:

- Designed for installation of underground electrical splices of 30 volts or less.
- Saves time, no crimping required. Insulating gel already contained in the tubes.
- 3M Electrical products are manufactured for AGI in an ISO 9002 facility.



ISO 9002

3M® HDBY Features:

- Wire range: 2-5#18 AWG thru 2#12 AWG solid or stranded copper wire.
- CHDBY6, HDBY6 UL listed, CSA certified for 600 volt direct bury & submersible applications.
- Complete with Scotchlok R connectors.
- Available bulk packed or in sets of two tubes w/ connectors.

3M® HDBR Heavy Duty Features:

- Wire range: 5 #16 AWG thru 3 # 10 AWG solid or stranded copper wire.
- Complete with Scotchlok R connectors.
- CHDBR6, HDBR6 UL listed, CSA certified for 600 volt direct bury & submersible applications.
- Available bulk packed or in sets of two tubes w/ connectors.

3M® SSP Series Insulation Displacement Connector Features:

- Used to electrically connect two or three wire ends & insulate the connection.
- #22-#14 AWG range on SSP314. SSP314 is UL and CSA listed.
- #22-#16 AWG range on SSP316.
- Also used for pigtail 2- and 3-wire splicing.
- Connector provides a moisture-resistant seal and is flame retardant.



SSP314



LV9000

Tom King Harmony Snaplock Wire Connector Features:

- Gel-filled 100% waterproof.
- Double o-ring, double-latch locking system.
- For low voltage connections.



Part Number	Description	Ctn Qty	List Price
CHDBY	3M® Splice Tube w/connectors, Bulk	100	\$ 2.07
CHDBR	3M® Heavy Duty Splice Tube w/connectors, Bulk	100	2.46
CHDBY6	3M® Splice Tube w/connectors, 600 volt , Bulk	100	3.21
CHDBR6	3M® Heavy Duty Splice Tube w/connectors, 600 volt , Bulk	100	3.75
HDBY2	3M® Splice Kit, packaged, 2 per package	50	5.14
HDBR2	3M® Heavy Duty Splice Kit, packaged, 2 per package	50	5.61
HDBY6	3M® Splice Kit, 600 volt , packaged, 2 per package	25	9.96
HDBR6	3M® Heavy Duty Splice Kit, 600 volt , packaged, 2 per package	25	11.18
SSP314	3M® Insulation Displacement Connectors #22-#14 AWG	50	1.23
SSP316	3M® Insulation Displacement Connectors #22-#16 AWG	50	1.18
Snaplock Gel-filled Wire Connector			
LV9000	Small- fits two #24 - seven #18 AWG	12/720	1.21
LV9500	Large - Fits two #18 - three #10 & one #18 AWG	12/432	1.77



ET1983



ET1983 Electrical Tester Features:

- Checks 120, 240, 440VAC and 150, 300, 500VDC
- Handy, economical, durable.
- Ideal for any electrical installation or repair.
- Extra long insulated lead with test probe for added convenience.
- Easy to read, bright indicator light.
- Requires no batteries.
- Packaged in slide blister card.
- Meets CE requirements.
- UL listed.

Part Number	Description	Ctn/Case Qty	List Price
ET1983	120, 240, 440V tester	10/120	\$ 10.18



ETLV1959



ETLV1959 LOW VOLTAGE Electrical Tester Features:

- Checks 6, 12, 24 and 48V AC/DC
- Handy, low cost tester for low voltage applications.
- Ideal for irrigation and landscape lighting installations and repairs.
- Extra long insulated lead with alligator clip for added convenience.
- Easy to read, bright LED indicator lights.
- Requires no batteries.
- Packaged in polybag with instructions.
- Meets CE requirements.

Part Number	Description	Ctn/Case Qty	List Price
ETLV1959	6, 12, 24, 48V tester	50/200	\$13.75

CAUTION:

Only the voltages indicated on the tester may be checked. Use extreme caution when checking any electrical circuits to avoid injury due to electrical shock. Basic knowledge of electricity on the part of the purchaser is assumed and American Granby and its manufacturer are not responsible for injury or damages due to improper use of this tester.



VL1

CLICK-IT™ Valve Locator Features:

- Water resistant.
- Compact design.
- For location of solenoid valve quickly and easily.
- Practical and cost effective.

Part Number	Description	Ctn Qty	List Price
VL1	Click-It Valve Locator	10	\$ 84.59



Pump Start Relay Features:

- Contactors are UL and UL Canada rated.
- Wide coil operating range, +10% to -30% of rated 60 hz coil voltage.
Contactors will start on low voltage as follows:
Single phase: 24 VAC coil will pull in at 17 volts.
120 VAC coil will pull in at 84 volts.
230 VAC coil will pull in at 161 volts.
- Finger safe design.
- One normally open auxilliary contact for powering a pilot light or alarm.
- Pressure screw terminals accept 18 through 10 AWG wire.
- Interposing relay units accept 24 through 10 AWG wire.
- Mechanical life up to 10 million operations.
- Long electrical life.
- PSR567 Series with interspoing relay designed for low voltage and low controller output.

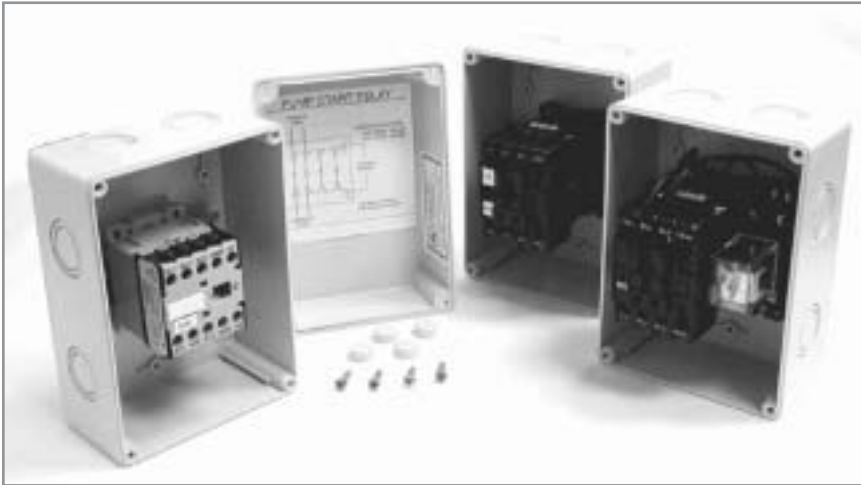


Industrial Non-metallic Enclosure Features:

- Gray enclosures are UL, CSA listed.
- Rated NEMA 4X for indoor or outdoor use.
- To maintain 4X enclosure rating use required 4X connectors.
- Watertight, dust tight, oil tight and rain tight.
- High impact, durable insulated Noryl thermoplastic.
- Neoprene gasketed cover.
- Resistant to shock, corrosion, chemicals and atmospheric agents.
- 8 conduit knockouts (1/2", 3/4" NPT combination.)
- Service temperature -40° to 260° F.
- Stainless steel cover screws (max tightening torque: 7 in-lbs.)
- Sealing plugs provided to waterproof mounting screws.
- 5.9" H x 4.3" W x 3.9" D



Pump Start Relays



Part Number	INPUT- PUMP START RELAY			CONTACTOR Coil Voltage	PUMP MOTOR HP (MAX)				LIST PRICE
	Volts VAC	Req'd Coil Close	Power Hold		Single Phase*		Three Phase **		
					120 v	230 v	200/230v	460 v	
Direct Control Style Contactor									
PSR123-24	24	26 VA	4.2 VA	24	1 HP	2 HP	3 HP	5 HP	\$ 84.45
PSR123-120	120	26 VA	4.2 VA	120	1 HP	2 HP	3 HP	5 HP	84.45
PSR123-230	230	26 VA	4.2 VA	230	1 HP	2 HP	3 HP	5 HP	84.45
Direct Control Style Contactor									
PSR575-24	24	70 VA	12 VA	24	2 HP	5 HP	7.5 HP	15 HP	119.60
PSR575-120	120	70 VA	12 VA	120	2 HP	5 HP	7.5 HP	15 HP	119.60
PSR575-230	230	70 VA	12 VA	230	2 HP	5 HP	7.5 HP	15 HP	119.60
Interposing Relay Style Contactor for low voltage/controller output applications.									
PSR576-110-24	24	1.2 VA	1.2 VA	120	2 HP	-	-	-	217.37
PSR576-230-24	24	1.2 VA	1.2 VA	260	-	5 HP	7.5 HP	-	217.37

Notes:

1. Direct Control Style: The **input volts** must match the controller output voltage.
The **contactor coil voltage** must match the controller voltage.
2. Interposing Relay Style: The **input volts** must match the controller output voltage.
The **contactor coil voltage** must match the controller voltage.
3. VA=Volt Amps. To determine the operating amperage needed by the coil, divide the VA by the controller output voltage.

* Single Phase systems require **motor overload protection** within the motor.

** Three phase systems: May require **motor overload protection** within the motor. For proper **overload protection** consult the NEC (National Electrical Code) and local building codes before installation.



Pipe Cutters & Saws



T100



R2000



CP10



HM42



HL50



CS24L



CS36T

KWIKCUT Poly Pipe Cutter Features:

- Replaceable Teflon®-coated tool steel blade or high polish stainless
- Blade closes into its own handle for safe carrying and handling.
- Faster than sawing and deburring.
- Available with black or yellow glass-filled nylon handles.
- T100 cuts P.E., P.B., rubber hose and PVC (Class & Sch 40) through 1"
- T135 cuts P.E. and rubber hose through 1 1/2", P.B. & Class PVC through 1 1/4".
- SS200 cuts rubber hose through 2", P.E. through 1 1/2", Class PVC through 1 1/4" (w/ stainless steel blade)
- R2000 cuts 2" pipe - class PVC, PVC electrical conduit, polyethylene, Sch 40, ABS.
- Kwikcut pouch available.
- Patented



® Teflon is a Dupont Registered Trademark

HM42 1-1/4" PVC Pipe Cutter Features:

- For use on plastic pipes up to 1-1/4" diameter.
- Blade and ratchet teeth made of tough molybdenum vanadium steel.
- All metal construction insures long life; locking clip provides safe storage.
- Holds pipe as it cuts, creating smooth, even ends.

HL50 2" PVC Pipe Cutter Features:

- For use on plastic pipes up to 2" diameter.
- Blade and ratchet teeth made of tough molybdenum vanadium steel.
- Long handles provide extra leverage for easy cutting.
- All metal construction insures long life; locking clip provides safe storage.

PVC Cable Saw Features:

- Multi-purpose cable saw cuts PVC pipe.
- Available in two lengths and two handle styles

Part Number	Description	Ctn Qty	List Price
Cutters			
T100	Small Pipe Kwikcut, Black	25/50	\$ 23.91
YT100	Small Pipe Kwikcut, Yellow	25/50	23.91
T100SS	Small Pipe Kwikcut, Black, SS Blade	25/50	24.40
YT100SS	Small Pipe Kwikcut, Yellow, SS Blade	25/50	24.40
T135	Medium Pipe Kwikcut, Black	25/50	26.73
YT135	Medium Pipe Kwikcut, Yellow	25/50	26.73
T135SS	Medium Pipe Kwikcut, Black, SS Blade	25/50	27.20
YT135SS	Medium Pipe Kwikcut, Yellow, SS Blade	25/50	27.20
SS200	Largest Pipe Kwikcut, SS Blade	25/50	29.27
R2000	Kwikcut	1	216.07
HM42	PVC Plastic Pipe Cutter, 1-1/4"	1	45.14
HL50	PVC Plastic Pipe Cutter, 2"	1	171.11
Blades, Replacement Springs and Accessories			
BT100	Blade for T100	1	8.67
BT100SS	Stainless Steel Blade for T100SS	1	9.46
BT135	Blade for T135	1	9.89
BT135SS	Stainless Steel Blade for T135SS	1	10.66
SSB200	Blade for SS200	1	9.97
HM42B	Blade for HM42	1	27.09
HL50B	Blade for HL50	1	81.51
HM42SP	Ratchet Spring & Blade Spring for HM42	1	6.37
HL50SP	Ratchet Spring & Blade Spring for HL50	1	7.08
CP10	Tool Pouch	10/25/50	12.72
Cable Saws			
CS24L	Cable saw, 24" length, Loop handle	12	5.36
CS36L	Cable saw, 36" length, Loop handle	12	8.72
CS36T	Cable saw, 36" length, T handle	12	11.43

Work Gloves - Cotton, Leather & Rubber Coated



AGWG104C

Standard ALL COTTON Work Glove Features:

- Multi-purpose work glove is ideal for all work needs.
- Generously sized to provide a comfortable fit.
- Straight thumb.
- Knit wrist.
- 100% cotton.
- Imported

Part Number	Description	Bundle Qty	Ctn Qty	List Price
AGWG104C	Cotton glove	12 pair	120 pair	\$ 1.75/pair



AGWG206L

Economy LEATHER Work Glove Features:

- Light duty, economical leather palm work glove.
- The protection of a leather palm and the comfort of a fabric back.
- Generously sized to provide a comfortable fit.
- Straight thumb.
- Knit wrist.
- Imported.

Part Number	Description	Bundle Qty	Ctn Qty	List Price
AGWG206L	Economy leather glove	12 pairs	120 pair	\$ 2.93/pair



AGWG205L

Heavy Duty LEATHER Work Glove Features:

- Gunn pattern; leather extends around the front of each finger, leaving no exposed seams or cloth in the palm "wear" area.
- Leather palm, fabric back.
- Generously sized to provide a comfortable fit.
- Winged thumb.
- 2 1/2" safety cuff.
- Imported.

Part Number	Description	Bundle Qty	Ctn Qty	List Price
AGWG205L	Heavy Duty Leather glove	12 pairs	120 pair	\$ 3.39/pair



AGWG6600 Series

ARMOR Rubber Coated Work Glove Features:

- Textured, durable blue natural rubber coating over seamless, breathable knit liner.
- Ideal for grabbing anything under wet conditions.
- Excellent for any abrasive or slippery application - pump & well, pool & spa, irrigation, plumbing & heating.
- Comfort and extraordinary grip
- Contoured fingers reduce hand fatigue.
- Imported.

Part Number	Description	Bundle Qty	Ctn Qty	List Price
AGWG6600L	Rubber coated knit glove, Large	12 pairs	144 pair	\$9.82/pair
AGWG6600XL	Rubber coated knit glove, XLarge	12 pairs	144 pair	\$9.82/pair



Swing Riser, MARLEX™ Fittings & Funny Pipe



Swing Riser Fittings for Funny Pipe

- For use with Funny Pipe and other thick walled 1/2" ID tubing.
- Use in drip irrigation, home sprinkler systems & other residential irr. applications.
- Spiral barb design allows quicker twist-on installation.
- Made of Celcon® plastic resin providing long term durability.



Part Number	Size	Connections	Ctn Qty	List Price
90° Elbow				
SRE1/2	1/2" x 1/2"	MIPT x funny pipe barb (FPB)	50/1500	\$ 0.28
SRE3/4	3/4" x 1/2"	MIPT x FPB	50/1000	0.28
Male Adapter				
SRMA1/2	1/2" x 1/2"	MIPT x FPB	50/500	0.28
SRMA3/4	3/4" x 1/2"	MIPT x FPB	50/500	0.28
Coupling				
SRC1/2	1/2" x 1/2"	FPB x FPB	50/500	0.28
Tee				
SRT1/2	1/2" x 1/2"	FPB x FPB x FPB	50/250	0.82

Lasco Swing Riser Fittings for Funny Pipe with Double Helix design

Part Number	Size	Connections	Ctn Qty	List Price
90° Elbow				
3300-005	1/2" x 1/2"	MIPT x funny pipe barb	500	\$ 0.35
3300-007	3/4" x 1/2"	MIPT x funny pipe barb	500	0.35
Male Adapter				
3400-005	1/2" x 1/2"	MIPT x funny pipe barb	100	0.41
3400-007	3/4" x 1/2"	MIPT x funny pipe barb	100	0.41



MARLEX™ STREET ELBOWS

- Ideal for use in swing joints.
- More than 27% heavier than other elbows, providing added strength & durability.

Part Number	Size	Connection	Ctn Qty	List Price
MSE1/2	1/2" x 1/2"	mipt x fipt	50/500	\$ 0.36
MSE3/4	3/4" x 3/4"	mipt x fipt	25/350	0.72
MSE1	1" x 1"	mipt x fipt	25/100	2.20



SWING JOINT ASSEMBLIES

- Fully assembled swing assemblies with funny pipe.
- Includes marlex elbow.
- Available in additional lengths or without marlex elbow by special order.

Part Number	Size x Length	Connection	Ctn Qty	List Price
SA125050	1/2" x 1/2" x 12"	mipt x mipt (marlex ell)	50	\$ 2.43
SA125075	1/2" x 3/4" x 12"	mipt x mipt (marlex ell)	50	2.82



POLY SWING PIPE

- Use with swing riser fittings for a flexible swing joint assembly.
- Pure linear low-density polyethylene with added elastomers for increased flexibility.
- Up to 80 psi working pressure.
- Made to ASAE S435 standard.

Part Number	Size	Ctn Qty	List Price
PSP50-100	1/2" x 100' roll	1	\$ 35.72

Funny Pipe Transition Fittings



Transition Fittings for Irrigation Applications

- Save money on material and labor cost.
- Faster, easier installation.
- Retaining spikes to prevent movement.



KWIKADAPT SW Series Fitting Features:

- One piece design to go from Poly to swing/funny pipe.
- Use instead of a combo insert tee and a swing elbow.
- Available in 3/4" and 1".

KWIKSLIP ST and SC Series Fitting Features:

- One piece design to go from PVC to swing/funny pipe.
- Use instead of a combo Sch 40 tee and a swing elbow.
- Generous lead in.
- Barbed seal for superior leak prevention.
- Gusseted branch for added strength.
- No threads to leak.

KWIKSNAP™ KSS Series Fitting Features:

- Snap-on one-piece saddle fitting for PVC to funny pipe.
- Installs with cement onto PVC pipe.
- Drill tap hole once cement has dried. (see instructions)
- 45 degree funny pipe connection prevents funny pipe crimping.



KWIKADAPT
SW adapter
SW1401 tee



KWIKSLIP
ST Tee
SC Coupler
SY Y-Coupler



KWIKSNAP
KSS Series

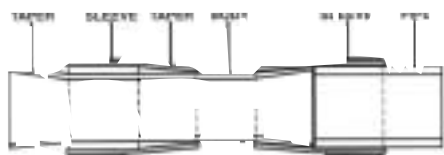
Part Number	Description	Ctn Qty	List Price
KWIKADAPT - Poly to Swing/Funny Pipe			
75SW	3/4" Insert x Swing /Funny Pipe	250	\$ 1.46
100SW	1" Insert x Swing/Funny Pipe	250	1.53
SW1401-099	3/4" Insert x Swing/Funny Pipe	250	1.94
SW1401-129	1" Insert x Swing/Funny Pipe	250	2.07
KWIKSLIP - PVC to Swing/Funny Pipe			
ST005	1/2" Slip x Swing/Funny Pipe	250	1.11
ST007	3/4" Slip x Swing/Funny Pipe	250	1.19
ST010	1" Slip x Swing/Funny Pipe	250	1.63
SC101	3/4" Spigot x 1/2" Hub x Swing/Funny Pipe	250	0.98
SC131	1" Spigot x 3/4" Hub x Swing/Funny Pipe	250	1.03
SC168	1 1/4" Spigot x 1" Hub x Swing/Funny Pipe	250	1.20
SY007	3/4" Slip x Swing/Funny Pipe	250	1.71
SY010	1" Slip x Swing/Funny Pipe	250	1.92
KWIKSNAP - PVC to Swing/Funny Pipe			
KSS-007	3/4" snap x swing	250	1.07
KSS-010	1" snap x swing	250	1.28
SHCT-30	Hole Coring tool for KWIKSNAP	1	34.52



Irrigation Repair Fittings



KWIKREPAIR™ Pipe Repair Fittings are a new concept in PVC pipe repair and fitting replacement. Use KWIKREPAIR™ to repair damaged pipes, replace damaged fittings or to tap into existing PVC lines. Saves time and money.



KWIKREPAIR™ Pipe Repair Fitting Features:

- No added fittings needed for repair.
- Reduces number of solvent welds.
- No o-rings to fail.
- Inside of sleeve is pre-conditioned. No primer needed.
- Installs quickly and easily. Just slip end fittings over glued pipe.
- Exceeds ASTM D2466 burst pressure requirements of Sch 40 PVC fittings.
- Patent #6318761



KR429 Series



KR406 Series



KR401 Series



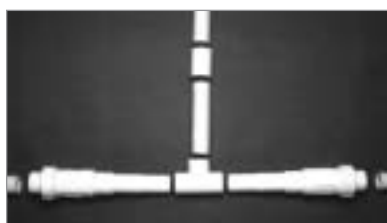
KRT402 Series

Part Number	Description	Ctn Qty	List Price
COUPLERS			
KRC429-005	1/2" x 1/2"	10	\$ 3.71
KRC429-007	3/4" x 3/4"	10	4.43
KRC429-010	1" x 1"	10	5.18
KRC429-012	1 1/4" x 1 1/4"	5	9.64
KRC429-015	1 1/2" x 1 1/2"	5	10.61
KRC429-020	2" x 2"	5	16.36
KRC429-025	2 1/2" x 2 1/2"	1	23.89
KRC429-030	3" x 3"	1	30.54
KRC429-040	4" x 4"	1	53.57
ELBOWS			
KRE406-005	1/2" x 1/2"	10	4.14
KRE406-007	3/4" x 3/4"	10	4.96
KRE406-010	1" x 1"	10	6.11
KRE406-012	1 1/4" x 1 1/4"	5	11.11
KRE406-015	1 1/2" x 1 1/2"	5	12.18
KRE406-020	2" x 2"	5	18.82
TEES			
KRT401-005	1/2" x 1/2"	10	7.43
KRT401-007	3/4" x 3/4"	10	9.46
KRT401-010	1" x 1"	10	11.50
KRT401-012	1 1/4" x 1 1/4"	5	20.89
KRT401-015	1 1/2" x 1 1/2"	5	23.11
KRT401-020	2" x 2"	5	35.54
COMBINATION AND REDUCING TEES			
KRT402-101	3/4" X 3/4" x 1/2" FIPT	10	7.89
KRT402-130	1" X 1" x 3/4" FIPT	10	8.71

KWIKREPAIR™ vs. Telescoping Couplings & Socket Fittings



PART REQUIRED TO REPLACE A TEE WITH KWIKREPAIR™



PARTS REQUIRED TO REPLACE A TEE WITH ORDINARY FITTINGS

REPLACING A DEFECTIVE TEE WITHOUT BENDING OR FLEXING THE PIPE

	Ordinary	KWIKREPAIR
Number of fittings required	4	1
Number of solvent welds required	7	3
Pipe movement restraint required	YES	NO
Possible o-ring failure	YES	NO
Minimum space required to install 1" tee	21" x 5 1/2"	9 3/4" x 5 1/2"
Approximate minutes to install*	15-45 min.	5-15 min.

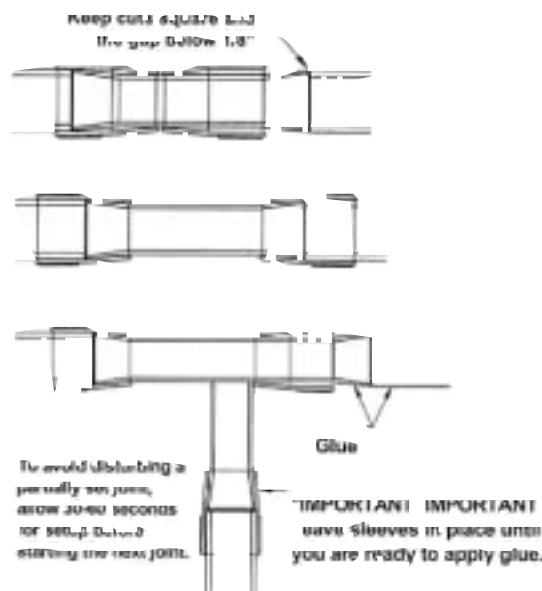
*Depending on accessibility

KWIKREPAIR™ PIPE REPAIR FITTING INSTALLATION INSTRUCTIONS

1. Mark section of pipe to be removed by using a fitting with the sleeves pulled back as a template. On tees and elbows remember to center fitting before marking and cutting pipe. Also remember that out-of-square cuts or leaving a gap larger than 1/8" between pipe and fitting reduces strength in the critical bonding area.

2. Before using glue, dry fit fittings in place by sliding all sleeves over pipe. This keeps the fitting aligned and in place during the gluing process.

3. **IMPORTANT**, leave sleeves over pipe until ready to apply glue. Pullback one sleeve at a time and supply glue on both the tapered portion of the fitting and end of pipe. (A glue that does not require a primer is recommended.) Then quickly slide sleeve over pipe while rotating it 1/4 turn until it bottoms out. To prevent sleeves from moving back after gluing, hold them in place for at least 10 seconds. Wipe off excess glue.





Expandable Repair Couplings



117 Series

Flo Span Expandable Repair Coupling Features:

- Double EPDM o-ring seal gives more protection from possible leakage due to deflection of piston in the extended position.
- EPDM o-ring seal also protects gasket against contamination on the cylinder wall.
- Solvent cement trap located in cap to capture excess solvents cement
- Made from PVC type I grade material meeting ASTM D-1784
- 118 Series excludes union

Part Number	Size	Body Length	Ctn Qty	List Price
117-05	1/2"	5 3/4"	28	\$ 4.92
117-07	3/4"	6 3/4"	24	5.60
117-10	1"	7 3/4"	15	6.47
117-12	1 1/4"	9"	10	12.18
117-15	1 1/2"	10"	16	13.27
117-20	2"	10 1/2"	12	20.54
118-25	2 1/2"	13"	3	33.10
118-30	3"	14 1/2"	3	41.35
118-40	4"	14 1/2"	3	72.38



PSC Series

Poly-Stretch Repair Coupling Features:

- For repair of polyethylene irrigation pipe.
- Avoid extra digging and buckled pipe.
- Couplings are made of ABS
- O-ring seal is made of Buna 70
- Pressure rated at 160 psi.
- Designed for irrigation operation pressures of polyethylene pipe and more.

Instructions for Installation:

- Cut out approximately 4" of pipe where repair is needed.
- Place clamps over ends of pipe
- Insert end marked with "END FIRST" arrow by pushing and turning at same time.
- Insert other end by pushing & turning.
- Place clamps over ribbed ends & tighten.

Dimensions:



	A	B	C	D	E
3/4"	4.0	.575	.820	1.50	5.625
1"	4.0	.770	1.075	1.50	5.625
1 1/4"	5.0	1.109	1.415	1.755	6.70
1 1/2"	5.0	1.310	1.63	1.755	6.70
2"	5.0	1.825	2.125	1.755	6.70

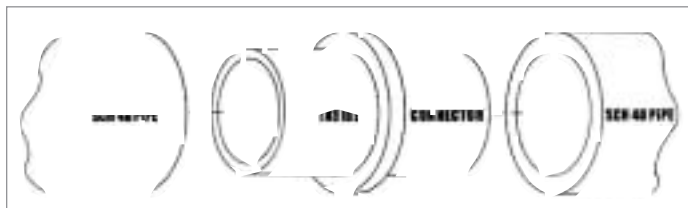
Part Number	Description	Ctn Qty	List Price
PSC07	3/4" Poly-stretch coupling	50	\$ 7.68
PSC10	1" Poly-stretch coupling	50	7.68
PSC12	1 1/4" Poly-stretch coupling	25	11.52
PSC15	1 1/2" Poly-stretch coupling	25	13.44
PSC20	2" Poly-stretch coupling	20	21.16



PEX Series

Pipe Extender Repair Fitting Features:

- For Sch 40 pipe.
- Saves labor.
- Invisible after installation.
- Permanent repair.
- Insignificant flow restriction.
- PVC Construction.



PIC Series

Inside Coupling Repair Fitting Features:

- Connects two pieces of Sch 40 pipe together without the need of additional fittings.
- Creates a smooth connection.

Part Number	Description	Ctn Qty	List Price
Pipe Extender Repair Fitting			
PEX50	Repair Fitting 1/2"	48	\$ 1.81
PEX75	Repair Fitting 3/4"	48	2.37
PEX100	Repair Fitting 1"	48	2.97
PEX125	Repair Fitting 1 1/4"	48	3.57
PEX150	Repair Fitting 1-1/2"	48	4.21
PEX200	Repair Fitting 2"	48	4.84
PEX250	Repair Fitting, 2 1/2"	96	5.56
PEX300	Repair Fitting, 3"	96	8.06
PEX400	Repair Fitting, 4"	48	9.39
Inside Coupling Repair Fitting			
PIC100	1" Inside Connector	48	2.97
PIC150	1 1/2" Inside Connector	48	4.21
PIC200	2" Inside Connector	48	4.84



Pinch Clamps

IDEAL

Single ear pinch clamp Features and Benefits:

- 300 series stainless steel material for excellent corrosion resistance.
- Welded construction provides superior strength.
- Quick, easy installation provides a uniform 360° seal.
- Permanent seal is tamper proof.
- Ideal 61-0 series clamps are compatible with most clinching tools.
- Fits most popular polyethylene and polybutylene water service lines.
- Perfect for irrigation applications.



61001-51

Part Number	Nominal Size	Open Diameter	Closed Diameter	Bag Qty	Ctn Qty	List Price per 100
61198	3/4"	0.779	0.669	100	2000	\$ 31.63
61210	13/16"	0.827	0.716	100	2000	32.14
61256	1"	1.008	0.898	250	2500	32.14
61271	1 1/16"	1.067	0.945	250	2500	34.69
61316	1 1/4"	1.244	1.122	250	2500	34.69
61331	1 5/16"	1.303	1.181	250	2500	34.18
61346	1 3/8"	1.362	1.240	250	2500	36.73
61410	1 5/8"	1.614	1.492	100	2000	38.78
61425	1 11/16"	1.673	1.551	100	2000	41.33
61485	1 7/8"	1.909	1.787	100	2000	43.88
61001-51	Pinch tool for all size pinch clamps				15	45.55 ea

To identify proper clamp size:

Measure actual OD of the hose on the fitting. Select the nominal size clamp nearest but always larger than the OD of the hose on the fitting.

Quantities:

Bag quantities required.

Drop Ship Programs:

Minimum 5000 piece assorted pinch clamps required if ordered in combination with a 5000 piece worm drive clamp drop ship order. Minimum 25,000 piece assorted pinch clamps required if ordered separately. Standard customer pricing on pinch clamps applies.

Freight & Terms:

Standard AGI freight, terms and conditions apply.

